

**WESTFORD WATER DEPARTMENT - WATER DISTRIBUTION SUPPLIES &
MATERIALS**

TOWN OF WESTFORD, MASSACHUSETTS

**BID DOCUMENTS
FOR**

WATER DISTRIBUTION SUPPLIES & MATERIALS

November 18, 2013

Town of Westford
Westford Water Department
60 Forge Village Road
Westford, MA 01886

WESTFORD WATER DEPARTMENT - WATER DISTRIBUTION SUPPLIES &
MATERIALS

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SECTION I

INVITATION FOR BIDS

The Westford Water Department acting through its Board of Water Commissioners is accepting sealed bids for the furnishing of Water Distribution Supplies and Materials for the period of January 1, 2014 through December 31, 2014.

Water Distribution Supplies and Materials:

- Item 1: 4" through 16" Pipe**
- Item 2: 4" or Larger Gate Valves, Fittings, & Boxes**
- Item 3: Hydrants**
- Item 4: Hydrant Parts and Extension Kits**
- Item 5: No Lead Service Brass**
- Item 6: Meters**

The Westford Water Department reserves the right to purchase only those quantities as required by the Department.

All materials will meet applicable standards as identified in these bid specifications including those of the American Water Works Association.

Sealed bids for materials, supplies, and services for the Westford Water Department, Town of Westford, Massachusetts will be received by the Water Department until 10:00 AM local time on December 19th, 2013 at the Westford Water Department, 60 Forge Village Road, Westford, Massachusetts 01886. Results will be available for viewing anytime after December 29th, 2013 at the Water Department.

All bids must be submitted on the bid forms supplied. All bid forms must be either typewritten or written in ink. All signatures must be in ink.

The bidder agrees that its bid shall be good through December 31st, 2014. Pricing shall include delivery to the garage located at 63 Forge Village Road, Westford Massachusetts 01886.

The Town reserves the right to waive any informalities, to accept or reject, in whole or in part any or all bids, or take whatever other action may be deemed to be in the best interest of the Town.

SECTION II
INSTRUCTIONS TO BIDDERS

1. Receipt and Opening of Bids

The Westford Water Department, Town of Westford, Massachusetts, herein called the Water Department, acting by and through its Board of Water Commissioners, will receive sealed Bids for the furnishing of Water Distribution Supplies and Materials in quantities as estimated on the attached bid sheets, more or less, as ordered by the Water Department for the period of January 1, 2014 through December 31, 2014 in accordance with the following specifications.

General bids shall be addressed to the Westford Water Department, 60 Forge Village Road, Westford, MA 01886 and endorsed "Bid for Water Distribution Supplies and Materials" will be received at the Water Department until 10:00 a.m. prevailing time, on Friday, December 19, 2013.

Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified will not be considered.

2. Preparation of Bid

Each bid must be submitted on the prescribed form. All blank spaces for bid prices must be filled in, in ink or typewritten.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder and his address. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in Receipt and Opening of Bids, above.

3. Bid Opening Procedure

The following requirements shall apply to each filed bid. Bids not meeting all the requirements for timeliness and security will be rejected. Bids shall be filed at the place and before the time specified in Receipt and Opening of Bids, above.

Bids will be opened and consolidated into 1 Excel based spread sheet indicating who the low bidder is for the specific material. Consolidated bid tabs will be available for review at the Water Department located at 60 Forge Village Road, Westford, Massachusetts, 01886 after Monday, December 29th, 2013.

4. Laws and Regulations

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances or bylaws, and the rules and regulations of all authorities having jurisdiction will be followed.

5. Right to Reject Bid

The Water Department reserves the right to waive any informalities in bids and to reject any and all bids, should the Water Department deem it to be in the public interest to do so.

The Water Department may also reject bids which in its sole judgment are obscure or not responsive or which contain additions not called for, erasures not properly initialed, alterations, or similar irregularities.

6. Comparison of Bids

Bids will be compared on the basis of prices set forth in the bid forms.

7. Pricing Structure

Bidders shall quote unit prices for each item on the bid form, delivered, based on the delivery information listed under "Deliveries". This price shall include any and all fees and surcharges and shall be firm for the contract period.

8. Deliveries

Deliveries shall be made only between the hours of 7:00 a.m. and 3:00 p.m., Monday through Friday. Deliveries outside of these hours may be allowed upon prior arrangements with the Water Department at no additional cost to the Water Department. Deliveries shall be made to the Westford Water Garage, 63 Forge Village Road, Westford, MA 01886. All delivery trucks shall be properly insured. Any damage to Water Department property caused by the vendor shall be repaired and paid for by the vendor. The bidder shall be in compliance with all Federal and State regulations.

9. Statutes Regulating Competitive Bidding

Any bid which does not comply with the provisions of Massachusetts General Laws Chapter 30B need not be accepted and the Water Department may reject every such bid.

SECTION III
SPECIFICATIONS

Materials Manufacture:

- a. All materials shall be of North American manufacture unless otherwise specified.

Ductile Iron Pipe:

- a. Ductile iron water main shall conform to AWWA Standard C151 and be double cement lined and seal coated to meet AWWA Standard C104. Joints shall be push on and shall conform to AWWA C111.
- b. Interior seal coat shall be at least 2 mils thick and shall conform to AWWA C104.
- c. Exterior of pipe shall be petroleum asphalt coated with a minimum of 4 mils dry film thickness.
- d. Class 52 wall thickness, 4" diameter through 16" diameter inclusive.
- e. Nominal laying length shall average no less than 18 feet.

PVC Pipe:

- a. PVC shall conform to AWWA Standard C900.
- b. Pipe shall meet or exceed DR-18-150 psi working pressure standards.
- c. Pipe shall be of the push on type with rubber gaskets.
- d. Pipe shall be 20' 0" nominal length.

Polyethylene Tubing (PE):

- a. Small diameter (3/4", 1", 1 1/4", 1-1/2" and 2") PE shall conform to AWWA C901 for small diameter, 200 psi PE pressure class pipe.
- b. All polyethylene tubing shall conform to the latest revision of ASTM-D2737.
- c. Polyethylene tubing shall be "copper tube size - CTS" and shall be rated for 200 psi at 73.4 degrees F

Copper Tubing:

- a. All copper tubing shall be type "K" and shall conform to the latest revision of Appendix A of AWWA C800.
- b. Copper tubing shall be of the soft, coiled type and shall conform with ASTM B-88.

MJ Fittings:

- a. All mechanical joint ductile iron fittings 3” through 16” shall be compact ductile iron class 350 in accordance with AWWA/ANSI C153/A-21.53 and shall be cement lined in accordance with AWWA/ANSI C104/A-21.40 or be fusion bonded meeting or exceeding ANSI/AWWA C116/A21.16 standards.
- b. Interior seal coated with a minimum of 4 mils dry film thickness(dft) in accordance with AWWA C104. Exterior petroleum asphalt coated with a minimum of 4 mils dft.
- c. Mechanical joint nuts and bolts shall be Cor-Ten unless otherwise specified.
- d. All fittings shall be supplied with “Megalug accessories” unless otherwise specified.

Mechanical Joint Resilient Wedge Gate Valves

- a. Acceptable valves are:
 - i. American Flow Control Model 2500 resilient wedge valve
 - ii. Mueller A-2360 resilient wedge gate valve
 - iii. U.S. Pipe Metroseal
 - iv. AVK series 2500 resilient wedge valve
 - v. M&H series 4067 resilient wedge valve
 - vi. Clow F-6100 resilient wedge valve

The use of any valves other than those mentioned above will require prior written approval from The Westford Water Department.

- b. All valves shall be Open Left (OL) opening direction.
- c. All valve body and bonnet bolts shall be high strength stainless steel.
- d. The valve stem shall be non-rising stem. The operating nut shall be 2” square.
- e. Supply with M.J. accessories.
- f. Valves shall have all internal and external surfaces shop coated with a high performance, two-part, heat-curable, NSF 61 approved, thermosetting epoxy.

Ductile Iron Couplings:

- a. Acceptable coupling shall either be solid Mechanical joint style or straight and transition type couplings and shall be constructed entirely of ductile iron.
- b. Acceptable products are:
 - i. HYMAX wide range coupling
 - ii. Romac 501 Coupling
 - iii. Smith Blair 421
- c. M.J. couplings shall be provided with M.J. accessories.

Valve Boxes:

- a. All Valve boxes shall be manufactured in the U.S.A.
- b. Valve boxes shall be cast iron, two piece, sliding type with a top flange and a minimum inside shaft diameter of 5".
- c. The bottom section shall be 36" long, unless otherwise specified, and provided with belled (buffalo) base.
- d. The top section shall be 26" long and designed to slide over the base section.
- e. The cover shall be a heavy 2" drop type, non-tilting cast/ductile iron unit that is recessed in the box top to prevent plow breakage. The cover shall be provided with two pick holes for easy removal and have the word "WATER" clearly cast into the cover.
- f. All valve box components shall be coated with a bituminous coating in accordance with AWWA C110.

Megalug Retainers:

- a. Megalugs to be manufactured of ductile iron conforming to ASTM A536-80.
- b. Dimensions of Megalug must allow use with standard M.J. Bell and "T" head bolts.
- c. Megalug must restrain up to 250 psi of working pressure with a 2:1 safety factor.
- d. Twist off nuts shall be used to insure proper actuation of the restraining lugs.

Fire Hydrants:

- a. Acceptable products are as follows:
 - i. Clow Medallion 5' – 6" bury, 5 1/4" Main Valve opening.
 - ii. Mueller Super Centurion 250. 5' – 6" bury 5 1/4" Main Valve opening.
- b. All hydrants shall be Open Left.
- c. All hydrants shall be equipped with working drain holes.
- d. All hydrants shall be equipped with breakaway flanges.
- e. All hydrants shall be equipped with a pentagon operating-nut.
- f. All hydrants shall be painted as follows:
 - i. Body: Yellow
 - ii. Caps and Bonnet: White

Service Boxes:

- a. Service boxes shall be box 95E or equivalent. Box shall include cover.

Brass Goods:

- a. All brass goods shall meet proposed 2014 "No Lead" brass standards set by AWWA.
- b. Brass goods shall be supplied with iron pipe threads or compression couplings. Compression couplings shall be ford style Quick Connect or Mueller Quick Connect.
- c. Corporations and Curb stops shall be Ball style, not wedge.

Meters:

- a. Meters shall be manufactured by Neptune.
- b. Heads shall read in cu/ft.
- c. Magnetic drive, low torque registration.
- d. Impact-resistant E-coder register.
- e. High resolution, low flow leak detection.
- f. Tamperproof seal pin.
- g. Date of manufacture, size, and model stamped on dial face.
- h. Made from lead free high copper alloy.
- i. NSF/ANSI 61, Annex G certified and Annex F compliant.
- j. Electrical grounding continuity.
- k. Ability to accept Tricon E digital pulse head with 4-20 MA.output.

Submitted by:

Company Name

Address

Distribution Location

Authorized Signature

Authorized Bidder
(print name)
